	Application No.	Applicant(s)	r
Notice of Allowability	··		
	10/611,555 Examiner	HASEGAWA ET AL. Art Unit	
	Kevin M. Bernatz	1773	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap) or other appropriate communicatio IGHTS. This application is subject	oplication. If not included n will be mailed in due course. THI	
1. This communication is responsive to <u>afterfinal filed 8/22/05</u>	<u>5</u> .		
2. The allowed claim(s) is/are 1-10 and 12-20.			
3. The drawings filed on <u>01 July 2003</u> are accepted by the Ex	kaminer.		
 4. Acknowledgment is made of a claim for foreign priority uses a) All b) Some* c) None of the: Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 6. CORRECTED DRAWINGS (as "replacement sheets") must 	e been received. e been received in Application No cuments have been received in this of this communication to file a reply MENT of this application. hitted. Note the attached EXAMINER es reason(s) why the oath or declar	r national stage application from the complying with the requirements	€
(a) ☐ including changes required by the Notice of Draftspers		-948) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	- ,	3.0, 4404	
(b) including changes required by the attached Examiner' Paper No./Mail Date		Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal I	Patent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☑ Interview Summary		
Information Disclosure Statements (PTO-1449 or PTO/SB/C Paper No./Mail Date	Paper No./Mail Da 08), 7. ⊠ Examiner's Amend		
4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. X Examiner's Statem	ent of Reasons for Allowance	
of Biological Material	9. 🗌 Other		

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Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with Mr. Anthony Curtis on September 15, 2005.

The application has been amended as follows:

• Claim 20, line 1: the dependence was changed from "claim 11" to "claim 1".

Reasons for Allowance

3. The present claims are deemed allowable over the references of record since the references of record fail to disclose or render obvious a magnetic detecting element meeting the claimed structural limitations.

The prior art of record disclose magnetic detecting elements possessing antiferromagnetic (AFM) layers disposed in the track width direction at each side of a multilayer laminate (see Ho et al., '056 B2), "exchange tab" structures disposed above a free magnetic layer (see Zheng et al., '598 A1), and structures possessing a side biasing element of two AFM layers separated by a ferromagnetic layer (see Umetsu, '787 A1). However, none of the prior art of record discloses or renders obvious a magnetic detecting element comprising a multilayer laminate meeting applicants' claimed limitations combined with second and third AFM layers meeting applicants'

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claimed limitation and a continuous second free magnetic layer disposed over each upper surface of the pair of second AFM layers and an upper surface of the first free magnetic layer.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M Bernatz whose telephone number is (571) 272-1505. The examiner can normally be reached on M-F, 9:00 AM - 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

KMB September 9, 2005 Kevin M. Bernatz, PhD Primary Examiner